

AMENDMENT

IN THE SPECIFICATION:

Kindly amend the specification, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

Please delete the paragraph on page 59, line 13, and replace it with the following paragraph:

Figure 4: PFAM search results for AAC74854.1 (ADS1) **(Residues 233-423 of SEQ ID NO: 2).**

Please delete the paragraph on page 59, line 14, and replace it with the following paragraph:

Figure 5: NCBI protein report for AAC74854.1 (ADS1) **(Residues 1-240 of SEQ ID NO: 2).**

Please delete the paragraph on page 59, lines 21-22, and replace it with the following paragraph:

Figure 7: AIEye sequence alignment of BAA15585.1 **(SEQ ID NO: 2)** (AAC74854.1 (ADS1)) and 1LFA:A **(SEQ ID NO: 7).**

Please delete the paragraph on page 60, line 13, and replace it with the following paragraph:

Figure 12: PFAM search results for AAC76768.1 (ADS2) **(Residues 204-408 of SEQ ID NO: 4).**

Please delete the paragraph on page 60, line 14, and replace it with the following paragraph:

Figure 13: NCBI protein report for AAC76768.1(ADS2) **(Residues 1-240 of SEQ ID NO: 4).**

Please delete the paragraph on page 60, line 21, and replace it with the following paragraph:

Figure 15: ALEye sequence alignment of P03818 **(SEQ ID NO: 4)** (AAC76768.1 (ADS2)) and 1AOX:A **(SEQ ID NO: 8).**

Please delete the paragraph on page 61, line 10, and replace it with the following paragraph:

Figure 20: PFAM search results for P10155 (ADS5) (Residues 1-194 of SEQ ID NO: 6, and residues 195-394 of SEQ ID NO: 10 aligned with residues 195-244 and 295-344 of SEQ ID NO: 6).

Please delete the paragraph on page 61, line 11, and replace it with the following paragraph:

Figure 21: NCBI protein report for P10155 (ADS5) **(SEQ ID NO: 6)**.

Please delete the paragraph on page 61, line 18, and replace it with the following paragraph:

Figure 23: AIEye sequence alignment of P10155 (ADS5) **(SEQ ID NO: 6)** and 1JLM **(SEQ ID NO: 9)**.

Please delete the paragraph on page 61, lines 25-27, and replace it with the following paragraph:

Figure 25: AIEye sequence alignment of P10155 **(SEQ ID NO: 6)**, *Homo Sapiens* Ro60 (ADS5), and the *Mus musculus* (AAF19049.1) **(SEQ ID NO: 10)**, *Xenopus Laevis* (AAC38001.1) **(SEQ ID NO: 11)** and *Caenorhabditis elegans* (CAA98241.1) **(SEQ ID NO: 12)** Ro60 homologs.